		Manufact	urer Disclosure Sta	tement for Medical Device Security – MDS	2	
			DEV	VICE DESCRIPTION		
Devi	ce Cate	ory	Manufacturer	Document ID Document Rel	ease Date	
Man	nmograp	hy System	Hologic, Inc	MAN-02859		
Devi	ce Mode		Software Revision	Software Relea	ase Date	
Dim	ensions	3Dimensions	1.9 / 2.0	8/8/2017		
		Company Nam		Manufacturer Contact Information		
Mani	ufacture			Chris Eischer@hologic.com		
Repr	resentati	/e		Christi ischer @ hologie.com		
Cont	act Infor	mation	e Name/Position	I		
		Chris Fischer				
Inter	nded us	e of device in network	-connected environment:			
The trans	Hologic smit Con	® Selenia® Dimension ventional Mammograp	ns® Mammography syste phy and 3D Mammograp	em and 3Dimensions® Mammography system are design hy™ images to a downstream PACS and Workstation fo	ed to capture and r diagnosis.	1
			MANAGE	MENT OF PRIVATE DATA		
					Yes, No,	#
	Ref	er to Section 2.3.2 of the	his standard for the prope	er interpretation of information requested in this form.	N/A, or See Note	Note
A	Can t	nis device display, tra	nsmit, or maintain private	e data (including electronic Protected Health Information	วท	
	[ePHI)?			Yes	
В	Types	of private data elem	ents that can be maintain	ed by the device :		
	B.1	Demographic (e.g., i	name, address, location,	unique identification number)?	Yes	
	B.2	Medical record (e.g.,	, medical record #, accour	nt #, test or treatment date, device identification number)	?	
				· · · · · · · · · · · · · · · · · · ·	Yes	
	B.3	Diagnostic/therapeu	tic (e.g., photo/radiograph	n, test results, or physiologic data with identifying		
		characteristics)?			Yes	
	B.4	Open, unstructured	text entered by device us	ser/operator?	Yes	
	B.5	Biometric data?			See Note	1
	B.6	Personal financial in	formation?		No	
С	Maint	aining private data - C	Can the device :			
	C.1	Maintain private dat	t a temporarily in volatile m	nemory (i.e., until cleared by power-off or reset)?	Yes	
	C.2	Store private data p	persistently on local media	a?	Yes	
	C.3	Import/export private	e data with other systems	s?	Yes	
	C.4	Maintain private dat	t a during power service in	terruptions?	Yes	
D	Mech	anisms used for the tra	ansmitting, importing/expo	orting of private data – Can the device :		
	D.1	Display private data	(e.g., video display, etc.)?	?	Yes	
	D.2	Generate hardcopy	reports or images contain	ing private data?	Yes	
	D.3	Retrieve private dat	a from or record private	data to removable media (e.g., disk, DVD, CD-ROM, tag)e,	
		CF/SD card, memor	y stick, etc.)?		Yes	
	D.4	Transmit/receive or port, USB, FireWire,	import/export private dat , etc.)?	a via dedicated cable connection (e.g., IEEE 1073, serial	Yes	
	D.5	Transmit/receive pri etc.)?	i vate data via a wired net	work connection (e.g., LAN, WAN, VPN, intranet, Internet	t, Yes	
	D.6	Transmit/receive pri	i vate data via an integrate	ed wireless network connection (e.g. WiFi Bluetooth		
		infrared, etc.)?			No	
	D.7	Import private data	via scannino?		No	
	D.8	Other?			No	
		1. System is c	apable of using a biometr	ic fingerprint scanner for user login as a convenience fea	ture. Use of this	
Mana	agemen	of does not store	is optional and normal p a copy of your fingerprin	asswords can be used instead. Per the manufacturer, the it. Instead, it makes a map of 25 to 40 unique features of	fingerprint scanne	er 1 puts
Priva	ate Data	notes: it into a data fo	ormat called a template. T	The template can only be interpreted by the specific biom	etric engine.	- Puto

HN 1-2013 Page 18

Device Category		Manufacturer	Document ID	Document Release	Date	
Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release D	ate	
Dimensions / 3Dimensions		1.9 / 2.0		42955		
		SECU	RITY CAPABILITIES			
	Refer to Section 2.3.2	2 of this standard for the prope	r interpretation of information re-	quested in this form.	Yes, No, N/A, or See Note	Note #
1	AUTOMATIC LOGOFI	F (ALOF)				
	The device 's ability to	prevent access and misuse by	unauthorized users if device is	left idle for a period of time.		
1-1	Can the device be con inactivity (e.g., auto-log	figured to force reauthorizatior off, session lock, password pr	n of logged-in user (s) after a pre otected screen saver)?	determined length of	Yes	
	1-1.1 Is the length of time [fixed or co	inactivity time before auto-logo onfigurable range] in notes.)	off/screen lock user or administra	ator configurable? (Indicate	Yes	1
	1-1.2 Can auto-logoff user?	/screen lock be manually invol	ked (e.g., via a shortcut key or p	roximity sensor, etc.) by the	Yes	
ALOF notes:	1. Inactivity log	gout interval configurable by c	ustomer.			
2	AUDIT CONTROLS (A	NUDT)				
	The ability to reliably at	udit activity on the device .				
2-1	Can the medical device	ce create an audit trail?			Yes	
2-2	Indicate which of the fo	llowing events are recorded in	the audit log:			
	2-2.1 Login/logout				Yes	
	2-2.2 Display/present	ation of data			Yes	
	2-2.3 Creation/modified	cation/deletion of data			Yes	
	2-2.4 Import/export of	f data from removable media			Yes	
	2-2.5 Receipt/transm	ission of data from/to external	(e.g., network) connection		Yes	
	2-2.5.1 Remote s	service activity			Yes	
	2-2.6 Other events? ((describe in the notes section)			N/A	
2-3	Indicate what informati	on is used to identify individual	events recorded in the audit log	j:		
	2-3.1 User ID				Yes	
	2-3.2 Date/time				Yes	
	Audit trail avai	lable to all Manager level user	s through the Hologic software.			
AUDT notes:						
3	AUTHORIZATION (AU	JTH)				-
	The ability of the device	e to determine the authorizatio	n of users.			
3-1	Can the device preven	t access to unauthorized user	s through user login requiremer	nts or other mechanism?	Yes	
3-2	Can users be assigned power users , administr	d different privilege levels withi rators, etc.)?	n an application based on 'roles'	(e.g., guests, regular users ,	Yes	
3-3	Can the device owner/ operator obtain unrestricted administrative privileges (e.g., access operating system or application via local root or admin account)?		Yes			
AUTH notes:	H System supports individual operator accounts and differing operator roles (Technologic and Manager.) Manager leve can create new accounts and revoke existing accounts.					isers

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Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release I	Date	
Dimen	isions / 3Dimensions	1.9 / 2.0		42955		
					Yes, No,	#
	Refer to Section 2.3.2 o	f this standard for the prope	r interpretation of information re	equested in this form.	N/A, or See Note	Note
4	CONFIGURATION OF S	ECURITY FEATURES (CNI	FS)			
	The ability to configure/re	-configure device security	capabilities to meet users' nee	eds.		
4-1	Can the device owner/op	erator reconfigure product s	security capabilities?		Yes	1,2
CNFS	1. OS Patches are	validated by Hologic on a	monthly basis and can be instal	led by the customer.		
notes:	2. Because of the	risk of non-validated system	n changes being applied and ne	gatively impacting the perform	nance or	
5	CYBER SECURITY PRO	DUCT UPGRADES (CSUP	d this product be added to a do	main.		
	The ability of on-site serv	ice staff, remote service sta	/ ff, or authorized customer staff t	to install/upgrade device 's sec	urity patches	6.
5-1	Can relevant OS and dev	rice security patches be app	lied to the device as they become	me available?	Yes	
	5-1.1 Can security patcl	nes or other software be ins	talled remotely?		No	
CSUP notes:	Hologic provides Currently validate	monthly critical and securit ed patch lists are posted to the	y patch validation for Dimension he Hologic website.	ons and 3Dimensions Mammo	ography platf	orms.
6	HEALTH DATA DE-IDEN	ITIFICATION (DIDT)				
	The ability of the device t	o directly remove informatio	on that allows identification of a	person.		
6-1	Does the device provide	an integral capability to de-i	dentify private data?		Yes	
DIDT	1. Patient data car	n be de-identified through th	ne standard software			
notes:						
7	DATA BACKUP AND DI	SASTER RECOVERY (DTB	iK)			
	The ability to recover after	r damage or destruction of a	device data, hardware, or softw	are.		
7-1	Does the device have an such as tape, disk)?	integral data backup capab	ility (i.e., backup to remote stora	age or removable media	No	
אפדח	System only acts	as a temporary store of patie	ent data before it is transmitted	to PACS. Any disaster recove	ry will be	
notes:	performed by Hol	ogic Service.				
8	EMERGENCY ACCESS	(EMRG)				
	The ability of device use	rs to access private data in	case of an emergency situation	n that requires immediate acce	ess to stored	
	private data.					
8-1	Does the device incorpor	rate an emergency access	("break-glass") feature?		No	
EMRG	i					
<u>a</u>						
J	How the device ensures from the originator.	that data processed by the	device has not been altered or o	destroyed in an unauthorized r	manner and is	S
9-1	Does the device ensure t	the integrity of stored data w	ith implicit or explicit error detec	ction/correction technology?	No	
IGAU notes:	System only acts	as a temporary store of patie	ent data before it is transmitted	to PACS.	110	

HN 1-2013 Page 20

Device Category		Manufacturer	Document ID	Document Release	e Date	
Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release	Date	
Dimer	nsions / 3Dimensions	1.9 / 2.0		42955		
	Refer to Section 2.3.2	of this standard for the prope	r interpretation of information requ	lested in this form.	Yes, No, N/A, or See Note	Note #
10	MALWARE DETECTIO	N/PROTECTION (MLDP)				
	The ability of the device	to effectively prevent, detect	and remove malicious software (r	nalware).		
10-1	Does the device suppor	rt the use of anti-malware so	ftware (or other anti-malware me	chanism)?	Yes	
	10-1.1 Can the user inc	lependently re-configure anti-	malware settings?		Yes	
	10-1.2 Does notification	of malware detection occur	in the device user interface?		No	
	10-1.3 Can only manufa	cturer-authorized persons rep	pair systems when malware has b	been detected?	Vac	
10-2	Can the device owner in	stall or update anti-virus so f	tware?		Yes	
10-2	Can the device owner/o	perator (technically/physicall	v) update virus definitions on man	ufacturer-installed anti-	100	
100	virus software?				Yes	
MLDP notes:	Hologic validate customer. Auton	s most general Anti-Virus/An natic virus definition updates	nti-Malware packages and provide are supported.	es instructions for installat	ion by the	
11	NODE AUTHENTICATI	ON (NAUT)				
l	The ability of the device	to authenticate communicati	on partners/nodes.			
11_1	Does the device provide	e/support any means of node	authentication that assures both t	he sender and the		
11-1	recipient of data are kno	wh to each other and are aut	horized to receive transferred info	rmation?	No	_
NAUT notes:						
12	PERSON AUTHENTICA	ATION (PAUT)				
	Ability of the device to a	uthenticate users				
12-1	Does the device suppor	t user/operator-specific user	rname(s) and password(s) for at le	east one user ?	Yes	
	12-1.1 Does the device	support unique user/operato	or-specific IDs and passwords for i	multiple users?		
					Yes	
12-2	Can the device be confi Directory, NDS, LDAP, e	gured to authenticate users t etc.)?	hrough an external authentication	service (e.g., MS Active	Yes	1
12-3	Can the device be confi	gured to lock out a user after	a certain number of unsuccessful	l logon attempts?	V	
12 /	Can default passwords l	he changed at/prior to installs	tion?		Yes	
12-4	Are any shared user ID	s used in this system?	uon <i>:</i>		Yes	2
12-6	Can the device be confi	aured to enforce creation of	user account passwords that meet	t established complexitv		
	rules?	5			Yes	3
12-7	Can the device be confi	gured so that account passw	ords expire periodically?		Yes	
	1. Application ca	an be configured for LDAP a	uthentication.			
PAUT	2. Applications l	login for training and Service	account for system maintenance	are shared account. Passw	ord can be cha	anged
notes:	if needed.					
	3. Number of ac	cess attempts before account	lockout and password complexity	rules configurable by cus	tomer.	
13	PHYSICAL LOCKS (PL	.OK)				
	Physical locks can preve of private data stored o	ent unauthorized users with p in the device or on removabl	physical access to the device from e media .	compromising the integrit	y and confider	ntiality
13-1	Are all device compone cannot remove without t	nts maintaining private data cools)?	(other than removable media) ph	ysically secure (i.e.,	Yes	
notes:						

Device Category		Manufacturer	Document ID	Document Release	Date	
Mamn	nography System	Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release D	ate	
Dimer	sions / 3Dimensions	1.9 / 2.0		42955		
-					Yes, No.	#
	Refer to Section 2.3.2 of the	his standard for the prope	r interpretation of information re	equested in this form.	N/A, or See Note	Note
14	ROADMAP FOR THIRD PA	ARTY COMPONENTS IN	DEVICE LIFE CYCLE (RDMP)			
	Manufacturer's plans for see	curity support of 3rd party	components within device life	cycle.		
14-1	14-1 In the notes section, list the provided or required (separately purchased and/or delivered) operating system(s) - including version number(s).					
14-2	Is a list of other third party a	pplications provided by the	e manufacturer available?		Yes	
	Microsoft Windows	7 Professional SP1				
RDMP						
notes:						
15	SYSTEM AND APPLICATIO	ON HARDENING (SAHD)				
	The device 's resistance to o	cyber attacks and malwar	е.			
15-1	Does the device employ an	v hardening measures? F	Please indicate in the notes the	level of conformance to anv		
15-2	industry-recognized harden	ing standards.	o specific bash kay, sheeksum	s, etc.) to oncure the installed	Yes	1
13-2	program/update is the manu	ufacturer-authorized progra	am or software update?		Yes	2
15-3	Does the device have exter	nal communication capab	ility (e.g., network, modem, etc	.)?	Yes	
15-4	Does the file system allow the (NTFS) for MS Windows place	he implementation of file-leatforms)?	evel access controls (e.g., New	Technology File System	Yes	
15-5	Are all accounts which are r and applications?	not required for the intend	ed use of the device disabled	or deleted, for both users	Yes	
15-6	Are all shared resources (e.	g., file shares) which are r	not required for the intended u	se of the device, disabled?	Yes	
15-7	Are all communication ports	which are not required fo	r the intended use of the devi	ce closed/disabled?	No	
15-8	Are all services (e.g., telnet, required for the intended u	, file transfer protocol [FTF se of the device deleted/c	P], internet information server [I] lisabled?	IS], etc.), which are not	Yes	
15-9	Are all applications (COTS a which are not required for the	applications as well as OS ne intended use of the de	-included applications, e.g., MS vice deleted/disabled?	S Internet Explorer, etc.)	Yes	
15-10	Can the device boot from u component)?	ncontrolled or removable	media (i.e., a source other tha	n an internal drive or memory	Yes	
15-11	Can software or hardware r tools?	not authorized by the devic	e manufacturer be installed on	the device without the use of	Yes	
	1. The Product Deve	elopment Life Cycle (PDI	C) of the device incorporates	numerous security scans (i.e. C	CIS, STIG) ai	nd
SAHD	notes: other vulnerability a	ccessments which are inc	orporated into the product desi media includes checksum testi	gn. ng capabilities, Application fil	es checksum	
	information can be	provided upon request.		ng expansion reprised in		
16	SECURITY GUIDANCE (SO	GUD)				
	The availability of security g	uidance for operator and	administrator of the system and	d manufacturer sales and servi	ce.	
16-1	Are security-related features	s documented for the devi	ce user?		No	
16-2	Are instructions available fo	r device /media sanitizatio	n (i.e., instructions for how to a	chieve the permanent	Voc	2
	1. Hologic provides a Cyber Security Best Practices document on its website that provides recommendation			i cs ns on networ	∠ rk	
SGUD	security with the Di	mensions product.	acces document on its website	and provides recommendation	ns on networ	A
	2. Covered in produ	ct User Manuals.				

HN 1-2013 Page 22

Device Category		Manufacturer	Document ID	Document Release	Date	
Mammography System		Hologic, Inc	MAN-02859			
Device Model		Software Revision		Software Release	Date	
Dimensions / 3Dimensions		1.9 / 2.0		42955		
	Refer to Section 2.3.2 o	f this standard for the prope	r interpretation of information rec	quested in this form.	Yes, No, N/A, or See Note	Note #
17	HEALTH DATA STORAG	GE CONFIDENTIALITY (ST	CF)			
	The ability of the device to on device or removable	o ensure unauthorized acce media.	ss does not compromise the inte	egrity and confidentiality of pr	ivate data sto	ored
17-1	Can the device encrypt d	lata at rest?			Yes	
STCF notes:	All PHI is encryp System can be con and supports man	ted at rest by the application nfigured to automatically re- ual removal of patient recor-	using strong symmetric encryp nove studies shortly after compl ds.	tion. System is only a tempor letion and successful transmi	rary store of el ssion to PACS	PHI. S,
18	TRANSMISSION CONFI	DENTIALITY (TXCF)				
	The ability of the device t	o ensure the confidentiality of	of transmitted private data.			
18-1	Can private data be tran	smitted only via a point-to-po	bint dedicated cable?		No	
18-2	Is private data encrypted which encryption standard	l prior to transmission via a r d is implemented.)	network or removable media ? (I	If yes, indicate in the notes	No	
18-3	Is private data transmiss	ion restricted to a fixed list o	f network destinations?		Yes	
	Device can be cor	nfigured to only transmit to s	specific IP addresses. TLS can b	be used on a local network.		
TXCF notes:						
19	TRANSMISSION INTEG	RITY (TXIG)				
	The ability of the device t	to ensure the integrity of tran	smitted private data.			
19-1	Does the device support describe in the notes sec	any mechanism intended to tion how this is achieved.)	ensure data is not modified duri	ing transmission? (If yes,	Yes	
TVIC	Device supports t	he use of TLS.				
notes:						
20	OTHER SECURITY CON	ISIDERATIONS (OTHR)				
	Additional security consid	derations/notes regarding m	edical device security.			
20-1	Can the device be servic	ed remotely?			Yes	
20-2	Can the device restrict readdresses)?	emote access to/from specifi	ed devices or users or network	locations (e.g., specific IP	Yes	
	20-2.1 Can the device be	e configured to require the lo	cal user to accept or initiate rem	note access?	No	
OTHR notes:						